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NOTICE OF ALLOWANCE AND FEE(S) DUE

65913

7590

06/29/2009

EXAMINER

FAULK, DEVONA E

ART UNIT PAPER NUMBER

2614

DATE MAILED: 06/29/2009

NXP, B.V. NXP INTELLECTUAL PROPERTY & LICENSING M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,179	07/14/2006	Bruno Korneel Rene Tourwe	NL040439	7256

TITLE OF INVENTION: SYSTEM FOR AUDIO SIGNAL PROCESSING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/29/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fe par	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
NXP, B.V. NXP INTELLECTUAL PROPERTY & LICENSING M/S41-SJ				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
1109 MCKAY I SAN JOSE, CA							(Depos	sitor's name)
SAN JOSE, CA	95151							(Signature)
								(Date)
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FAULK, D		ART UNIT 2614	381-099000					
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			(1) the names of up to agents OR, alternate (2) the name of a sing registered attorney or 2 registered patent att listed, no name will b	f a single firm (having as a member a rney or agent) and the names of up to tent attorneys or agents. If no name is e will be printed.				
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Comj GNEE	ified below, no assignee pletion of this form is NO	T a substitute for filing at (B) RESIDENCE; (CIT	a assignment. Y and STATE OR (COUNT	RY)		
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			o. Payment of Fee(s): (Plo A check is enclosed. Payment by credit ca The Director is heret overpayment, to Dep	urd. Form PTO-2038	8 is atta	ched.	eficiency, or credit	t any is form).
5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).								
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ttes Patent and Trademark	d from anyone other than					er party in
Authorized Signature	44-5			Date				_
Typed or printed name			Registration No.				_	
an application Confiden	tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DO	CFR 1.311. The informatic U.S.C. 122 and 37 CFR 2 USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	1.14 This collection is a	stimated to take 12	minutes	to complete includi	ag gathering prep	aring and

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M/S41-SJ 1109 MCKAY DI SAN JOSE, CA 9			2614 DATE MAILED: 06/29/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 355 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 355 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
Notice of Allowability	10/597,179	TOURWE, BRUNO KORNEEL RENE
Notice of Allowability	Examiner	Art Unit
	DEVONA E. FAULK	2614
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed on 4</u>	<u>1/24/09</u> .	
2. The allowed claim(s) is/are <u>1 and 3-13</u> .		
 Acknowledgment is made of a claim for foreign priority ur a)	been received. been received in Application No cuments have been received in this in	national stage application from the
 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be subm (a) ☐ including changes required by the Notice of Draftspers 	es reason(s) why the oath or declara ot be submitted. on's Patent Drawing Review (PTO-	tion is deficient.
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	s Amendment / Comment or in the C	ngs in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e

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DETAILED ACTION

Response to Remarks

1. Applicant's arguments, regarding the newly recited language of claims 12, filed 4/24/09, with respect to claim 12 has been fully considered and are persuasive. The rejections of claim 12 has been withdrawn.

- 2. The applicant has amended claim 11 to overcome the claim objection set forth in the previous office action.
- 3. The applicant has amended claim 12 to overcome the 101 set forth in the previous office action.
- 4. Claim 2 and claims 14-16 are cancelled.

Allowable Subject Matter

- 5. Claims 1,3-13 are allowed.
- 6. The following is an examiner's statement of reasons for allowance: Regarding claims 1,11 and 12, prior art Menkhoff (US 5,714,918) discloses a sound reproduction system (Figure 6) comprising a digital audio signal input (data input E, Figure 6; column 5, lines 26-32), a digital audio signal processor (digital signal processor is comprised of hp1,tp1, hp2,tp2,mh1,mt1, mh2,mt2 Figure 6) and a digital audio signal output (output from adder ad1, Figure 6) wherein the digital signal processor comprises a high pass filter (hp1, Figure 6; column, lines 25-37) with a high pass frequency, an amplifier (mh1, Figure 6) for a signal filtered by the HP filter, and a low pass filter (tp2, Figure 6; column, lines 25-37) with a low pass frequency (for filtering the signal after amplification by the amplifier (mh1, Figure 6) and for providing an output signal, and the digital processor

comprises an establisher for establishing the high pass frequency or the low pass frequency (Menkhoff discloses that the frequencies of the high and low pass filters can be arbitrarily preset; column 3, lines 54-59; establisher is implicit). Prior art Saito et al. (US 5,200,709) discloses frequency matching (abstract; column 7,lines 35-39). Prior art Agari teaches of a high pass filter whose cut-off frequency is determined in dependence on a measure noise level (See abstract). The prior art or combination thereof fails to disclose or make obvious a low pass cut-off frequency decreases as the high pass cut-off frequency increases. Therefore the prior art fails to disclose or make obvious a sound reproduction system as claimed.

Claims 3-10, and 13 are allowed due to dependency on claims 1 and 12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEVONA E. FAULK whose telephone number is (571)272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devona E. Faulk/

Primary Examiner, Art Unit 2614